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Sage Notes

Newsletter of the Idaho Native Plant Society • Promoting Interest in Idaho's Native Flora

The 2020 Idaho Rare Plant Conference

By Beth Corbin, INPS Rare Plant Conference Chair

The 2020 Idaho Rare Plant Conference (RPC) was a highly successful meeting, attended by 78 registrants from several agencies and organizations across Idaho (and beyond). We met at the new Idaho Department of Fish and Game building in Nampa on February 25-27, 2020, fortunately just before the coronavirus pandemic shutdown hit. Our co-coordinators Anne Halford (Bureau of Land Management) and Jennifer Miller (IDFG) did a fabulous job of pulling together an excellent meeting. One of the roles of INPS is to maintain and periodically review and update the Idaho Rare Plant List. The Idaho RPC is the venue where this gets done.

Our first half day (Tuesday) consisted of introductions, a tribute to botanist Rob Bursik, and our keynote talk by Chris Davidson on his Flora of the World project. These were followed by informative agency updates from Karen Colson and Barb Schmidt (U.S. Fish & Wildlife Service), Mike Hayes and Jennifer Brickey (U.S. Forest Service), Lynn Kinter (IDFG), and Anne Halford (BLM). That evening there was a fun informal social at Fiesta Guadalajara Mexican restaurant in Nampa.

Wednesday morning brought great conservation talks from Kelly Hopping (a fascinating alpine worm story), Wallace Keck (Pinyon pine), Elle Kramer (Geodata), Michael Ottenlips (Lomatiums), and Rose Lehman (Monarchs). Throughout the conference, Holly Hovis lightened things up with short breaks of botany haiku, yoga, jokes, and riddles.

Wednesday afternoon we began the rare plant conservation ranking presentations. Rare plant ranking is a large part of the RPC. This year we presented a record 98 plant taxa for ranking or discussion, thanks to the hard work of Rare Plant Working Group (RPWG) members. I gave a short overview of the ranking process that we use (NatureServe rank calculator), and we jumped right into ranking presentations, beginning with the Northern Idaho RPWG. Derek Antonelli, fearless leader of the Northern Idaho RPWG, coordinated (and presented) a multitude of rankings recommended by the working group. For each plant, a short summary of the RPWG's research findings on abundance, distribution, condition, and threats was presented, along with a recommended State ranking. There was a short group discussion (for questions or additional information) and a consensus rank was voted upon. This process allows us to cover a lot of plants at each RPC, with so much research, discussion, and coordination done at the RPWG meetings leading up to the RPC.

Our evening banquet was a tasty catered Thai dinner at the IDFG RPC site; the banquet speech by Dr. Jim Cane (USDA ARS Research Entomologist) on native bees was delightful and highly informative.

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Letter from the President

The Society in the face of Covid-19

I assume that I am not alone in trying to stare down discouragement as I see one summer activity after another cancelled due to the COVID-19 pandemic. Given my health issues, I, more than most, fully understand the need for limiting the spread of this virus. Quite frankly, as a high risk individual, this illness scares the bejeebers out of me. But, in spite of the necessities of social isolation, I deeply miss the opportunities that the Idaho Native Plant Society and other similar associations provide. Chapter field trips and other outdoor activities have been limited or completely cancelled. Our annual meeting was pushed back a year. Society service activities have been severely curbed. Even our ERIG grant program is being affected as grant recipients struggle to complete their proposed projects.

So, it was a great relief when, in spite of socializing issues, we held a very successful plant foray during this last week. Normal behaviors for such an event were put on hold. The participants tried to maintain social distancing practices. Many of us wore face masks. Chairs around the fire were spaced such that most of us could not feel the usual warmth. We traveled in a greater number of vehicles to prevent potential virus spread. It was a little different. But we were outdoors. We were hands-on with our favorite subject matter—native plants. We were part of a team making a difference as we documented the presence of plants in an under-collected region. We found unusual and possible new species. All in all, it was an absolute breath of fresh air. Thanks to those who put together this opportunity. You provided much more than just a foray.

Stephen Love
INPS President

Editor's Note

My name is Emma Casselman, and I am the new editor for *Sage Notes*. I'm currently a student at Boise State University studying Biology with an emphasis in Botany and Ecology, and a certificate in Technical Communications. Having completed three summers doing Sage Grouse Habitat Monitoring on Idaho National Lab, I have a particular fondness for the Sagebrush-steppe, but I'm looking forward to exploring the flora and fauna of Idaho's riparian and alpine ecosystems.

Thank you all for bearing with me as I learn the ropes of the editor position in these peculiar times. I have quite large shoes to fill, and Mike Mancuso, Jody Hull, Nancy Miller, and Caroline Morris have been instrumental in making *Sage Notes* possible.

I look forward to meeting all of you in the future—social guidelines permitting. Stay safe and enjoy the sunshine!

Emma Casselman
Sage Notes Editor

Fond Remembrance of Pahove's Mary McGown

By Caroline Morris, Cyndi Coulter, Ann DeBolt, and Michael Mancuso, Pahove Chapter

Pahove sadly lost a treasured long-time member when Mary McGown passed away on February 29, 2020, after a brief fight with aggressive cancer at the age of 70. Mary contributed insights and a broad environmental perspective to Pahove Chapter projects, making them more effective and fun.

Mary at the 2015 Pahove Plant Sale. Photo by Cyndi Coulter.

Mary's 1982 move to Boise from Denver with her husband, John McGown, allowed them to live in a smaller city, near Idaho's natural beauty. Their two daughters were born while Mary was educating herself in many diverse fields: biology, landscape architecture, and a Ph.D. in Forest, Wildlife and Range Management. Wide-ranging skills brought her varied employment with a landscape architecture firm, the Idaho Department of Parks and Recreation, the City of Boise, Idaho Rivers United, and the Idaho Department of Water Resources, from which she retired as the State Floodplain Coordinator with a very lively party in 2013.

Mary especially enjoyed the meditative experience of walking tours, and did not limit herself geographically. She participated in many tours not only here in the US, but also in Ireland, Scotland, and England. Last year alone she visited and hiked in Bulgaria and Wales (one of few to walk that country's 170 mile length), then took a family "trip of a lifetime" planned by her accomplished daughters, Erin and Brenna, to South Africa, Botswana, and Zimbabwe.

Spare moments were often spent at the family's beloved cabin in Grandjean (fortunately not badly damaged by the recent earthquake). Here she was delighted by the fine bird watching opportunities. Mary taught a June 2019 class on hummingbirds at the Idaho Botanical Garden that vividly demonstrated her deep knowledge and love for these birds.

Mary's talents and passion for wildlife, hiking and whitewater rafting also enriched her contributions to many Chapter projects. In 2019, her uncluttered, easy-to-follow landscape plan for the Pahove Planting Committee's native plant garden at the new Foote Park Interpretive Center near Lucky Peak Dam in Boise was implemented. Her people skills persuaded the Army Corps of Engineers site manager to donate, deliver, and place several large, attractive, lichen-laden boulders that truly enhanced the garden.

Mary shared her extensive volunteer activity and advocacy not only with Pahove, but with other community organizations, particularly other local environmentally oriented groups such as Idaho Rivers United, Sagebrush Steppe Master Naturalists, and many more. Pahove benefited greatly from Mary's work and enjoyed her active engagement that spanned decades.

Her family arranged a loving memorial service attended by devoted friends on March 4, 2020. Another celebration of her life will occur when normal social interaction returns. Anyone interested in making a memorial donation should contact the Idaho Community Foundation, (208) 342-3535, directed to the McGown Family Fund, which will further support Mary's many dedicated environmental causes. •

Mary at Foote Park, 2019. Photo by by Vicki Henderson.

2020 INPS Annual Meeting Cancelled

The Sawabi Chapter Board met on a Zoom conference Monday, May 4. After a review of Governor Little's criteria for re-opening Idaho, we reluctantly decided to cancel the annual meeting scheduled for June 12–15 in Pocatello. We didn't see any way to have dinners, plant walks or museum tours using the recommended social distancing in the Governor's plan. There was also a concern for the INPS members who have pre-existing conditions, many of whom have stated that they wouldn't have attended for their own safety.

Susan Rounds of the White Pine Chapter has recognized the efforts that the Sawabi members have made to host the meeting and has recommended that the Sawabi Chapter host the Annual Meeting in 2021. Sawabi Chapter will happily take on the responsibility of the 2021 Annual Meeting and looks forward to next year, same time, same place.

***RPC**...Continued from Page 1*

Thursday morning the NIRPWG wrapped up their ranking presentations, and the Southern Idaho RPWG (coordinated by Beth Corbin) followed with their presentations. The rankings continued into mid-afternoon, with ranking presentations by 11 different SIRPWG members all together. The afternoon concluded with an open discussion, critique, and closing remarks by INPS president Steve Love. That evening, a casual social at The Reef in Boise allowed more time for discussion and mingling.

INPS President Steve Love. Photo by Lynn Kinter.

Friday, February 28, there was an optional field trip at Hulls Gulch in the Boise Foothills, led by Barbara Ertter, to see early wildflowers and other interesting vegetation.

All in all, it was a great conference, put together by the faithful RPC committee and our tireless coordinators Anne and Jennifer. We learned a lot from a wide variety of conservation talks and several interesting poster presentations. We had ample networking opportunities over a fine array of tasty food at breaks and meals. And we made significant progress in updating the Idaho Rare Plant List. In particular, we discussed and/or ranked 98 plants at this year's conference. Of that total, 41 plants are newly ranked and maintained on the list as Rare, 33 plants were ranked and newly added to the Rare Plant List, 15 plants were newly ranked and moved from Review to Rare, 2 previously ranked plants were re-ranked and maintained as Rare, 3 plants were dropped from the Rare Plant list, 2 dropped from the Review list, one was discussed but not ranked (left on Review), and one plant ranked and not added to the list. See Table 1 for a list of all plants discussed. The updated Idaho Rare Plant list will be posted to the INPS website shortly.

MCs Anne Halford and Jennifer Miller. Photo by Lynn Kinter.

Harpo Faust scribing. Photo by Lynn Kinter.

Many thanks to all who participated in a myriad of ways in this extremely important activity of the Idaho Native Plant Society. •

Opening session. Photo by Jody Hull.

Networking during a break. Photo by Lynn Kinter.

Lynn Kinter standing with the posters. Photo courtesy Lynn Kinter.

Danielle Trawick standing by her poster. Photo by Lynn Kinter.

...Photos continued on Page 6

Table 1: 2020 Idaho Rare Plant Conference Results

Newly Ranked, maintain Rare (41)

Allium anceps, S2S3
Andromeda polifolia var. *polifolia*, S1
Aspicilia rogeri, S2S3
Astragalus bourgovii, S1
Astragalus yoder-williamii, S1S2
Botrychium ascendens, S1
Botrychium crenulatum, S1
Botrychium neolunaria (previously as *B. lunaria*), S1
Botrychium paradoxum, S1
Botrychium pedunculosum, S1
Camassia cusickii, S2
Carex californica, S2
Carex comosa, S2
Carex flava, S3
Carex incurviformis, S1
Carex livida, S3
Carex straminiformis, S3
Chaenactis cusickii, S1S2
Cladonia symphycarpa (previously as *C. andereggii*), S1
Cymopterus douglassii, G3+S3
Gentianella tenella, S1S2
Geum rossii var. *rossii*, S1
Hierochloe hirta (previously as *H. odorata*), S2
Ivesia tweedyi, S2
Lysimachia europaea (previously as Trientalis artica), S3
Maianthemum dilatatum, S1
Mimulus hymenophyllus, S1
Mimulus patulus (previously as *M. washingtonensis*), S3
Mirabilis macfarlanei, S1
Muhlenbergia racemosa, S1
Musineon naomiensis (previously as *M. lineare*), S1
Numphaea leibergii, SX
Oxalis trilliifolia, S1
Parnassia kotzebuei, S1S2
Polystichum braunii, S2
Pyrrocoma radiata, S3
Ribes sanguineum var. *sangineum*
Sairocarpus kingii, S1
Spiranthes diluvialis, S1
Texosporum sancti-jacobi, S2
Trifolium owyheense, S1

New to List, add as Rare (33)

Aliciella triodon, S1
Anacolia menziesii var. *baueri*, S2
Calypogeia integristipula, S1
Calyptridium roseum, S2
Crossocalyx hellerianus, S1
Diphasiastrum alpinum, S1
Eremogone loisiae, S1
Erigeron katiae, S1
Erigeron watsonii, S1
Isotes minima, S1
Juncus hemiendytus var. *hemiendytus*, S2
Lomatium andrusianum, S2S3
Lophoziopsis longidens, S1
Nevada homgrenii, S1
Orthocarpus tolmiei ssp. *holmgreniorum*, SH
Orthotrichum pulchellum, SH
Phlox mollis, S2S3
Pinus monophylla, S1
Porella platyphylla, S1
Porella roellii, S1S2
Porterella carnosula, S3
Potentilla drummondii, S2
Potentilla gracilis var. *owyheense*, S2
Pseudobraunia californica, S1
Ptilidium californicum, S2
Ptilidium ciliare, SH
Targionia hypophylla, S2
Thalictrum alpinum, S2
Thamnobryum neckeroides, S2
Triomaria exsecta, S1
Triomaria exsectiformis, S1
Utricularia ochroleuca, S1
Xanthoparmelia norchlorochra, S2

Newly Ranked, move from Review to Rare (15)

Anemone cylindrica, S1
Codriphorus varius, S1
Dendroalsia abietina, SH
Juncus bryoides, S2
Juncus hallii, S1
Juncus hemiendytus var. *abjectus*, S1S2
Juncus tiehmii, S1
Orthotrichum consimile, S2
Orthotrichum striatum, S2S3
Penstemon seorsus, S3
Porella naviclaris, S1
Scapania apiculata, S1
Scapania bolanderi, S3
Thelypodium flexuosum, S1
Trifolium longipes var. *multipenculatum*, S1

Previously Ranked, Update and maintain Rare (2)

Argemone munita ssp. *rotundata*, S1
Pyrrocoma linearis, S3

Dropped from Rare (3)

Arabis sparsiflora var. atrorubens – not in Idaho
Lysimachia latifolia (previously as Trientalis latifolia) - S4
Minuartia stricta – not in Idaho

Dropped from Review (2)

Ericameria bloomeri – not in Idaho
Sedum rupicolum – not in Idaho

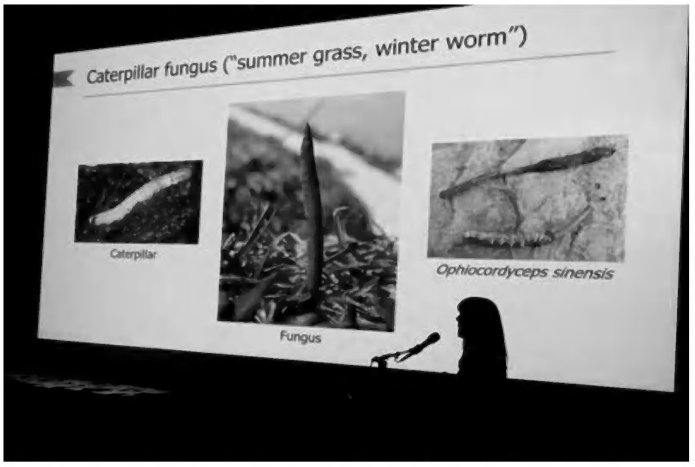
Not Ranked, leave on Review

Silene suksdorfii – additional collections need review

Considered for adding, Not added

Saxifraga hyperborea - S4

***RPC...**Continued from Page 4*



Kelly Hopping and her alpine worm story. Photo by Lynn Kinter.

Holly Hovis leading plant yoga during a break. Photo by Jody Hull.

2020 RPC Banquet. Photo by Jody Hull.

Barbara Ertter leads Friday foothills field trip. Photo by Jody Hull.

Chapter Report

Pahove Annual Native Plant Sale Moves Online

By Caroline Morris and Karie Pappani, Pahove Chapter

A Pahove Chapter keystone for decades has been its Annual Native Plant Sale, originating as a passion to share native plants from members' gardens that Ann DeBolt expanded for community access in 1989. The Pahove Chapter has aligned the sale appropriately with Earth Day, Arbor Day, and Idaho Native Plant Appreciation Week, which now takes place the third week of April, after Pahove petitioned the Idaho Governor's Office for a new botanical celebration. Coincidentally late April is also a perfect time for spring planting, with enthusiasm peaking for those eager to tend their vegetable and flower gardens across the Treasure Valley. Our Sale typically focuses on a conservation theme, such as the Year of the Bird, Plants for Pollinators, the Food Web, or the Benefits of Going Native.

Every aspect of our Sale, from the beautifully designed plant list and flyers, to the coordination of countless volunteers who help tremendously with organizing and displaying plants, is orchestrated by Susan Ziebarth, who has managed the sale for over 10 years. She masterminds the Sale and it wouldn't be what it is without her. This year's new online Sale was possible because of the following individuals: Vicki Henderson's technological skills and her husband Ed, who set up the online shopping platform; Paul Shaffer's website and IT support; and Ray Corbin's bright idea to use 'Square,' an easily adopted electronic payment system. All this industriousness enabled another successful, yet so different Sale. We developed an entirely new online-only-orders process, complete with stunning photos and descriptions of each plant and timed-order pickups to comply with social distancing goals that met the needs of both our masked volunteer delivery staff, and the public who were anxiously awaiting this year's Sale.

The Sale opened for members April 25-26. Before the next week's public Sale, we checked inventory and adjusted

our sales process. Many folks, including some drafted relatives, worked long hours, used new talents, and strained their brains to make the system what it is now. Thanks to them we were able to physically handle the many steps from vendor pickup, individually labeling each pot, and delivering to each customer spaced properly 6 ft. from us and the other buyers at the MK Nature Center parking lot.

Anticipating complications, Pahove bought about 25% fewer plants this year, and we sold most of those that were ordered. However, at least 3,000 new native flowers, grasses, shrubs, and trees are now enhancing Treasure Valley gardens and beyond.

A huge THANK YOU to all who made online ordering and curbside pickup a reality; other Pahove board members and countless chapter volunteers for their unwavering commitment over the years and their pleasant dispositions during the Sale's fun frenzy of flora; and to members and non-members who bought plants, encouraged their personal networks to buy, and cheerfully accommodated the Sale's new procedures. We hope to see you in 2021! •

A volunteer prepares a plant sale order for the online Pahove Chapter Plant Sale. Photo by Jody Hull.

Taxonomy Corner

Not All Coronas Are Sinister

By Michael Mancuso, Pahove Chapter

Narcissus sp. (Public domain photo)

Corona is one of those English language words with multiple definitions. Lately, it has become a consistent headline in the news due to COVID-19, a disease caused by a type of coronavirus that emerged from China in late 2019. Named for their appearance when viewed under a powerful microscope, the surface of a coronavirus is covered with crown-like spikes. This represents one definition for corona—a crown-like upper portion of a body part or structure. I first learned the word 'corona' as that luminous halo around the moon and sun caused by light diffracting through thin clouds or haze. Similarly, the corona is that aura of highly ionized gas that surrounds the sun and other stars, extending into space for vast distances. But corona is also a cigar with a long, tapering body and blunt ends; or in the parlance of architecture, the top projecting part of a cornice (a type of decorative moulding on buildings). Corona has several medical connotations as well.

Asclepias syriaca (USGS Bee Inventory and Monitoring Laboratory, public domain photo)

So perhaps it should come as no surprise that corona is also a botanical term—referring to petal-like or crown-like appendages between the petals and stamens in some flowers. Daffodils (*Narcissus* sp.), milkweeds (*Asclepias* sp.), and passionflower (*Passiflora* sp.) are some plant genera with a corona with which you may be familiar. In daffodils, the six petal-like tepals are surmounted by a cup- or trumpet-shaped corona that is often a contrasting color. The floral complexity of milkweeds is largely related to variations in the horn-shape and hood-shape coronas. In the milkweeds the corona lobes function as nectar receptacles effectively serving to position an insect into proper alignment for removal or insertion of pollen (pollinia). The usually colorful and elaborate corona of a passionflower also serve to attract pollinators and guide them to a nectar source. Flowers can amaze us with their beauty and complexity. The presence of a corona only enhances this wonder. •

Passiflora incarnaa (USGS Bee Inventory and Monitoring Laboratory, public domain photo)

Moving the Stillinger Herbarium

By Ben Legler, Stillinger Herbarium Collections Manager, University of Idaho

Moving an herbarium is no simple task, especially one that contains 250,000 specimens occupying nearly 200 refrigerator-sized storage cabinets. That is the size of the Stillinger Herbarium at the University of Idaho, and yes, in 2019 we relocated to a new space on campus.

For readers not familiar with the Stillinger Herbarium, it is the largest herbarium in Idaho and serves as a repository for preserved specimens of vascular plants, bryophytes, fungi, and lichens. Together these comprise about 215,000 cataloged specimens (another 35,000 specimens await processing in our backlog), some dating back to the 1800s. The Herbarium's collections provide the most complete documentation of the flora of Idaho and are an important resource for research in floristics, systematics, evolution, ecology, and conservation. The Herbarium also supports education and outreach through courses, workshops, identification services, tours, and employment or independent research opportunities for students.

What did it take to move the Herbarium?

In our case, 1,300 cardboard boxes, many months of work, and the logistical and financial support of several departments across campus. Initial work began in 2018 when University Facilities personnel renovated several rooms in the Mines Building that had been previously used for processing geology and ice core samples; these rooms would become our future home. In January 2019, the surge of moving activity began as we packed the Herbarium's supplies and library of 2,500 books. By early February, these were placed in temporary storage and the daunting task of packing specimens began.

Herbarium assistants Pearl Brown, Harpo Faust, and Abby Hale celebrating after we finished packing the entire vascular plant collection into cardboard boxes. Photo by Ben Legler.

Installing mobile storage units and cabinets in the new Herbarium. Photo by Ben Legler.

Several ideas were floated for how to store the specimens while the cabinets were moved; after all, it's not like we had enough spare cabinets sitting around to temporarily hold all the specimens, and the cabinets could not be moved with specimens inside them. In the end, we decided to keep the specimens in the old Herbarium space, stored in 1,300 cardboard boxes stacked out of the way against walls until they could be transported directly to our new space. It took us an entire month to pack up the collection, after which contractors moved and re-installed our mobile storage system and cabinets into the new space in late February.

Thanks to the dedication of our student workers, herbarium staff and volunteers, we safely transferred all our collections to their new home, with the last of the specimens going back into the cabinets on April 3rd. It took another month to finish work on the rest of the new Herbarium, turning it into a functional work space with benches and bookshelves, but by mid-May we were fully moved in and able to resume normal operations.

Benefits of moving the Herbarium

Prior to the move, the Herbarium's collections were spread across three locations both on and off campus. This arrangement limited access and usage of the collections. Our new space allowed us to bring the collections back together into one place and increase the amount of working space for researchers and students, thus greatly improving accessibility. We also improved the collection's organization, freeing space for future growth; this gives us room to add 50,000-60,000 more specimens to our

vascular plant collection and accommodate foreseeable expansion in the bryophyte, fungal and lichen collections.

Activities following the move

Just as the herbarium move was wrapping up, herbarium staff, students, and associates began the active field season, collecting over 4,000 specimens across Idaho and beyond. Ongoing collecting helps expand the Herbarium's holdings and improves our still-incomplete documentation of Idaho's flora. Graduate student research plays a prominent role in the growth of the collections. Harpo Faust obtained over 2,100 specimens as part of her floristic inventory of the Selkirk Range in northern Idaho. Ty Styhl led a field crew that collected about 600 specimens in association with a study on Greater Sage-Grouse diets. Dan Turck obtained 429 specimens from across the Pacific Northwest to elucidate the origins of our temperate rainforests. Sam McCauley collected species of *Diplacus* (formerly under *Mimulus*) for phylogenetic research. The Stillinger Herbarium also organized the 12th Annual Idaho Botanical Foray to the Idaho Panhandle during which the thirteen participants collected nearly 600 specimens (see article in *Sage Notes* Vol 41(3), September 2019). Ben Legler, Collections Manager, focused on collecting aquatic species and introduced weeds in northern Idaho. Much of this field work, as well as general herbarium operations, are financially supported by the Stillinger Trust, enacted in 1972 through an endowment by Charles R. Stillinger, an avid botanist and Moscow landowner.

Graduate students Megan Ruffley and Malia Santos pressing specimens in the Selkirk Mountains of northern Idaho. Photo by Harpo Faust.

Highlights from the field season included Idaho state records for two native species, *Diphasiastrum alpinum* and *Utricularia ochroleuca*, collected by Harpo Faust, and twelve introduced species collected by Ben Legler: *Alisma lanceolatum*, *Allium vineale*, *Epilobium hirsutum*, *Galium palustre*, *Juncus inflexus* ssp. *inflexus*, *Lythrum portula*, *Nasturtium* ×sterile, *Rubus alleghenisensis*, *Stachys palustris* (European species, not our native *S. pilosa*), *Symphytum* × *uplandicum*, *Tragopogon floccosus*, and *Trifolium hirtum*. The high number of introduced species added illustrates the dynamic aspect of our state's flora as new species become established and spread.

Herbarium assistants Pearl Brown, Abby Hale, and Anna Green mounting specimens in the new Herbarium. Photo by Ben Legler.

The new Stillinger Herbarium quickly became an active place following the move. During 2019, we had nine part-time employees and two regular volunteers who helped mount 3,600 new specimens and image 4,500 specimens. The Herbarium hosted graduate students working on specimen identifications, evening plant identification work parties, several meetings of the northern Idaho Rare Plant Working Group, visiting researchers, and class tours. We held an Herbarium open house on November 1st to celebrate the completion of the move, drawing about 70 visitors and giving them a chance to see the new Herbarium, learn what goes on in an Herbarium, take a behind-the-scenes peek at the specimens, and even try their hand at mounting a specimen.

For those readers who would like to visit, you are welcome to stop by the Herbarium for a tour or to consult the collections; find us on the University of Idaho Cam-

Six Idaho state records found during the 2019 field season (left-right, top-bottom): Diphasiastrum alpinum, Galium palustre, Lythrum portula, Tragopogon flocosus, Trifolium hirtum, Utricularia ochroleuca. Photos by Ben Legler.

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CALYPSO CHAPTER
When: Meetings are the first Wednesday of March, April, May and October at 7:00 pm. Field trips take place during the spring, summer, and early fall months.
Where: Meetings are now being held in the Wildlife Building, North Idaho Fairgrounds, Coeur d'Alene.
Contact: Derek Antonelli, ds.ca.antonelli@gmail.com

LOASA CHAPTER
When: Meetings are held the third Thursday of each month at 7:00 pm.
Where: Taylor Building, Room 247, College of Southern Idaho, Twin Falls.
Contact: Bill Bridges, bridgesbill34@yahoo.com

PAHOVE CHAPTER
When: Meetings are held on the second Tuesday of each month from September–April at 7:00 pm. Dates, times, or topics are occasionally subject to change. Upcoming meeting information is sent to members via postcard or email. Events are also posted on the Pahove Chapter page of the INPS website.
Where: The MK Nature Center Auditorium, 600 S. Walnut Street, Boise.
Contact: For more information about activities please visit the INPS website, Pahove Chapter page or email Karie Pappani at pahove.chapter.president@gmail.com.
Upcoming Events
Due to the circumstances, all upcoming events planned for this spring and summer have been cancelled. A list of cancelled events is available on our Chapter webpage. These events will likely be rescheduled. New times and dates will be posted online and announced via email.
September: Our annual season kick-off may be held in September at Idaho Botanical Garden, provided we are allowed to all meet in person again. Details TBD.
Board Position Opening
Pahove chapter is seeking a new board president. Current president, Karie Pappani, has served the chapter exceptionally for 8+ years, and the time has come to select her successor. Interested individuals are encouraged to contact the board at pahove.chapter.president@gmail.com.

SAWABI CHAPER
When: Meetings are held on the third Monday night of October, November, January, February, March and May. Programs begin at 7:00 pm and refreshments are available afterwards. Each meeting begins with a short presentation on the plant family of the month.
Where: The Middle Fork Room of the Pond Student Union Building on the lower Idaho State Univ. campus.
Contact: Geoff Hogander, ghogande@yahoo.com.

UPPER SNAKE CHAPTER
Contact: Kristen Kaser, kaser.kristen@gmail.com.

WHITE PINE CHAPTER
When: Meetings are held once a month at 7:00 pm except during the summer. Field trips can occur most any month. Please check the chapter website at www.whitepineinps.org for events which may be scheduled or finalized after *Sage Notes* is printed; or email the chapter officers at whitepine.chapter@gmail.com.
Where: Great Room of the 1912 Building, 412 East Third St. in Moscow (between Adams and Van Buren).
Contact: INPS, White Pine Chapter, PO Box 8481, Moscow, ID 83843 or whitepine.chapter@gmail.com.

WOOD RIVER CHAPTER
When: Meetings are held on weekday evenings and wildflower walks generally on Saturdays. Times are announced in local news outlets and also in the chapter newsletter. Events are also posted on the Wood River Chapter page of the INPS website.
Where: Each meeting's location is noted in the announcement.
Contact: Subscribe to the newsletter by emailing Lisa Horton at 1gypsy2016@gmail.com. Address questions about programs to Kristin Fletcher at naturewalker7@gmail.com.
Upcoming Events
July 25: Mill Lake. This is one of the easier alpine lakes in our area to access. There's a flower-filled chest-deep meadow plus the beautiful small lake itself. Hike difficulty: moderate to difficult. 3.5 miles total with 1200' elevation gain and wading a stream crossing. You might want wading shoes and poles. Meet 8:30 am at Hailey Park & Ride Lot or 9:15 am at Lake Creek Parking Lot. Home around 2:00 pm.
August 21-23: Group Camp-out in Stanley Basin. This two night expedition is for Wood River Chapter members only. We will camp at Elk Creek campground next to a meadow full of flowers and wildlife. During the days we'll catch the shuttle boat across Redfish Lake to hike into the wilds at the south end of the lake, and possibly hike to Bridal Veil Falls off Stanley Lake—you'll get all the details after you sign up. Participants will be asked to pay their share of the actual group campsite fee for the two

nights plus the shuttle boat fee. Friday night potluck; other meals on your own. Sign up details in our newsletter.

September 19: One Big Tree +. We're going out Fish Creek Road to look at those gargantuan aspen trees (possible state record!) followed by more fun stuff (details TBA). We can finish up with a hot drink back at Silver Creek Store in Picabo. Meet at Hailey Park & Ride Lot at 9:00 am, or Silver Creek Store in Picabo at 9:45am. Home by 2:00 pm. •

Announcement

New Website Being Developed for Boise Front Wildflowers

Do you want to see descriptions and plant lists for self-guided wildflower trails in the Boise Front, find out more about the local flora in general, or just learn more about the unique natural history of the Boise Front? If so, keep an eye on https://boisefrontnature.com, being developed by Barbara Ertter, Paul Shaffer, Bob Gobeille, and other collaborators. Coverage at present is primarily public-access lands bounded by Highway 55, Mores Mountain, Arrowrock Dam, Bonneville Point, Blacks Creek Road, Blacks Creek Reservoir, and Hubbard Reservoir. Enjoy the site and keep checking for future developments!

Wildflower walks: Downloadable plant lists are available for all the wildflower walks that Barbara Ertter otherwise would have given this year. The walk descriptions are being expanded into self-guided versions, with priority given to the seasonally appropropriate ones. Expect additional walks as time allows.

Photo galleries: At present there are four photo galleries; we hope to have others up before too much longer.

Species pages: A separate species page is being developed for each plant that occurs outside of cultivation in the defined area. The species list is still a long way from being finalized (especially for grasses and sedges!), but contains over 500 plants. Paul Shaffer has done an amazing job making the website work, including search pages and links.

Added note: Barbara Ertter's "Treasures of the Boise Front" Powerpoint presentation is now available on the Idaho Native Plant Society website under https://idahonativeplants.org/native-plant-resources/.

Herbarium*...Continued from Page 9*

pus in the Mines Building, rooms 116 and 117A. For additional information and an overview of the Herbarium by former curator Pam Brunsfeld, visit our website at https://www.uidaho.edu/research/entities/herbarium or refer to *Sage Note*s Vol 33(3), September 2011. Our vascular plant specimens are electronically catalogued, imaged, and are publicly accessible through the Consortium of Pacific Northwest Herbaria online database at http://www.pnwherbaria.org/. •

Herbarium curator Dave Tank (far left) showing fossil plant specimens during the Herbarium open house. Photo by Harpo Faust.

Visitors in our vascular plant collection room during the Herbarium open house. Photo by Harpo Faust.

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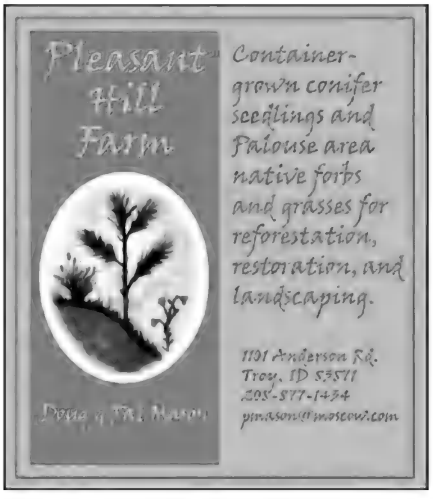

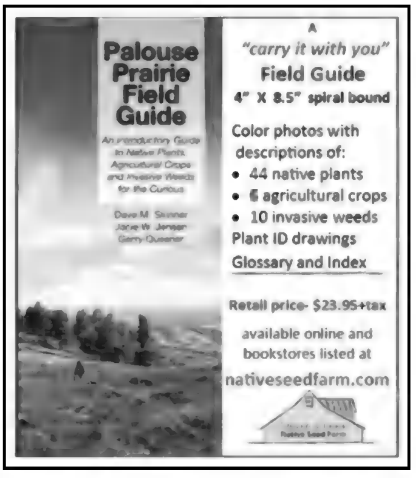

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Vol. 42 No. 2 September 2020

Sage Notes

Newsletter of the Idaho Native Plant Society • Promoting Interest in Idaho's Native Flora

Community-Driven Habitat Restoration

By Aaron Connolly, Idaho Bird Observatory

In the early 1900s, the diversion dam was built on the Boise River, just upstream of a current Intermountain Bird Observatory (IBO) research site. This dam was built for the purpose of diverting irrigation water into the New York canal and dispersing it across the Treasure Valley's farmland. Since those early days, this particular site has gone through many years of abuse and neglect. Unrestricted vehicle use, cattle grazing, and other unregulated uses introduced exotic invasive weeds like cheatgrass (*Bromus tectorum*), rush skeletonweed (*Chondrilla juncea*), and tumble mustard (*Sisymbrium altissimum*). The site is riddled with these and many others. Furthermore, the flood control introduced by the upstream dams has channelized the river and slowed the natural regeneration of native trees like black cottonwood (*Populus trichocarpa*).

In October 2018, IBO undertook a habitat restoration project at their 22-acre Boise River research site located a few hundred yards upstream just under the State Highway 21 bridge. Part of IBO's vision in this restoration is that it will someday resemble what the river corridor may have looked like before European settlement, development, and channelization. There are even plans of re-establishing a historic river side channel that will expand the water table, improve vegetation, and provide benefits for many wildlife species. IBO hopes to find ways to outcompete invasives, encourage natives, and help inform other restoration projects downstream.

This is being explored through an experimental approach which uses over 20 species of native plants evenly spaced within 10-foot by 10-foot plots. In 2018, 45 experimental plots were divided into three habitat types (sandy soil, sandy-loam soil, and gravel soil) and were assigned one of three treatments. These included a layer of burlap placed to try and control weed emergence, an over seed of Sandberg bluegrass (*Poa secunda*) to try and outcompete invasives, and a control of no treatment. Each plot was given a total of 46 plants in different configurations based on habitat/soil type. Many aspects of their survival were tracked and monitored by a team of interns during the summer of 2019. The team also maintained the plots through weekly watering and weeding to encourage and support the seedlings in their first year of growth.

Results from this first year were encouraging, as the project saw around 55% survival across the site. A few of the forbs with the highest survival rates were scabland penstemon (*Penstemon deustus*) which had nearly 100% survival in sandy-loam soils and western yarrow (*Achillea millefolium*) achieved around 80% survival across the site. These hardy plants and others such as Munro's and gooseberry globemallow (*Sphaeralcea* spp.), had no reservations in showing off their beautiful flowers.

...Continued on Page 4

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Letter from the President

Surviving the Pandemic

I think that most of you know that I have significant heart health issues. As a result, I am considered very high risk with regards to COVID-19. Consequently, I have spent the last six months hunkering down and avoiding close contact with people, including the members of my own Sawabi Chapter of the Idaho Native Plant Society. I miss the camaraderie and opportunities to learn about the unique plants and ecosystems found within the borders of our beautiful state. For that reason, I was truly excited about the invitation from the Pahove Chapter to participate in their Zoom-delivered monthly meeting. I am not a big fan of Zoom meetings, but this one filled a personal need for me. Kudos to Karie Pappani and her crew for delivering a quality program to the entire INPS membership. Also, my compliments to Barbara Ertter and Don Mansfield for their fascinating presentations. Other chapters within our society are planning similar events and plan to issue invitations for statewide participation. Way to go, INPS leadership! I am beginning to think we will survive this pandemic.

Stephen Love,
INPS President

Announcement

INPS State Board of Directors Election

Due to the cancellation of our 2020 INPS Annual Meeting, we did not elect the current officers sheduled for re-election. Hence, the 2020 Treasurer position has not been voted on and the election will be conducted via email.

Karen Getusky is the nominee for Treasurer on the 2020 ballot. Being the current Treasurer, she is willing to accept another two-year term if elected.

When sending in your ballot, please indicate your preferred candidate (write-in nominations are accepted), and send the ballot via email to the secretary, Janet Bala at balajane@isu.edu.

The Vice-President will be voted on during the 2021 ballot, alongside the President and Secretary positions. If you are interested in running for a position, or know someone who is, please have them contact our President, Stephen Love, at slove@uidaho.edu.

BALLOT

Treasurer: Karen Getusky ____ Other (write in name) _____

The society is giving a 60-day window for receiving votes. The deadline is January 15, 2021. Votes are accepted any time after receiving this notice (the sooner the better). The chapter presidents will be notified of the voting results and can share them with their chapter members.

Thank you everyone for taking the time to vote!

The Bedrock Meadows of Lake Pend Oreille

By Viktoria Wagner and Ricarda Pätsch, Dept. of Biological Sciences, University of Alberta, Edmonton, Alberta

The mid-elevational zone of the Interior Pacific Northwest is home to natural meadows that occur interspersed among forests in northwestern Montana, northern Idaho, northeastern Washington, and southeastern British Columbia (Fig. 1). This meadow habitat type is often bound to argillite, a bedrock in the Belt supergroup with an extremely dense texture. The combination of this water-impermeable bedrock and a high snow fall create near-surface seepages that lead to a lush vegetation carpet in late spring (Fig. 2a). Although this vegetation type is globally unique, it has never been studied by scientists.

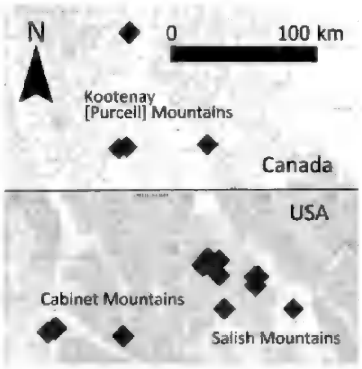


Fig. 1. Map of bedrock meadow survey in the Interior Northwest.

In the last two years, we undertook a field survey in the Interior Northwest in order to assess the plant diversity of this habitat type. An ERIG grant from the Idaho Native Plant Society allowed us to explore the bedrock meadows of the northern Lake Pend Oreille area, on the Grouse and Talache Mountains, in the Kaniksu National Forest. Our team included a botanist specializing in meadow vegetation (Hans Georg Stroh, Germany). In late May 2019, we recorded all vascular plants in fifteen plots with a size of four by four meters (13.1 × 13.1 sq. ft.). We also collected aboveground plant biomass (20" × 20" plots) to estimate productivity, and soil samples which we are currently analyzing for nitrogen, carbon and heavy metal element content.

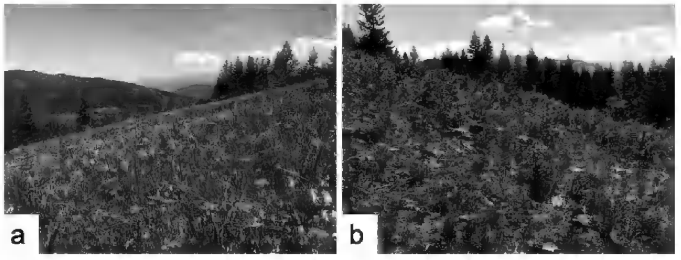


Fig. 2. (a) Bedrock meadow and (b) shrub encroachment of a bedrock meadow (both on Grouse Mountain).

Throughout our survey in the Interior Northwest, the meadows on Grouse Mountain were some of the largest we have encountered. Furthermore, they were some of the few meadows that were encroached by shrubs, which could pose a threat to this habitat type (Fig. 2b).

We are currently finalizing our sample analysis and comparing the species composition of bedrock meadows to other open habitat types in the Inland Northwest and adjacent regions. Our first results show that this habitat type is distinct from subalpine meadows, intermountain grasslands, and coastal grasslands and meadows, and thus warrants its own status in vegetation classification systems. Furthermore, our tentative results suggest that bedrock meadows differ in their high richness of annual, succulent and bulbous plants—life forms that are perfectly adapted to wet soils in spring and dry and hot soils in the summer. Annual plants that we encountered included false mermaid (*Floerkea proserpinacoides*) and narrowleaf minerslettuce (*Montia linearis*). Wyeth biscuitroot (*Lomatium ambiguum*) and lanceleaf springbeauty (*Claytonia lanceolata*) were some of the perennials with underground storage organs (e,g, bulbs, rhizomes) that were common in bedrock meadows (Fig. 3).

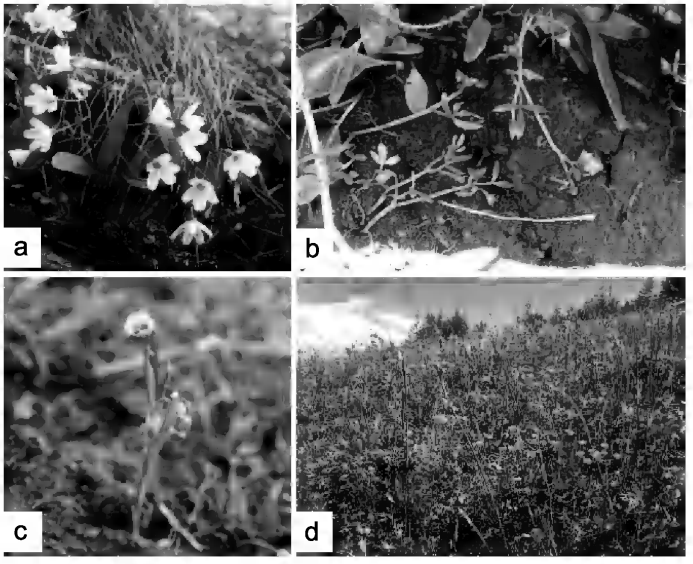


Fig. 3. Bedrock meadow plants on Grouse Mountain. a) Lanceleaf springbeauty (Claytonia lanceolata), b) false mermaid (Floerkea proserpinacoides), c) narrowleaf minerslettuce (Montia linearis), d) Wyeth biscuitroot (Lomatium ambiguum; yellow flowers)

Although we did not specifically study the origin or the historic dynamics of bedrock meadows, we speculate that the Grouse Mountain meadows might have been much larger in the past, promoted through fire by local Native American tribes to stimulate growth of edible plants with taproots, rhizomes, or bulbs that grow abundantly in these meadows. Given their unique species composition, size and ecology, the meadows on Grouse Mountain would benefit from shrub removal in the future. •

***Habitat Restoration**...Continued from Page 1*

As for shrubs and grasses, Wyoming big sagebrush (*Artemsia tridentata* spp. *wyomingensis*) did very well with a sitewide average survival of nearly 90%. Sand dropseed (*Sporobolus cryptandrus*) was the only grass species planted in this first year and did well at over 70% survival and silver sagebrush (*Artemisia cana*) had about 50% survival.

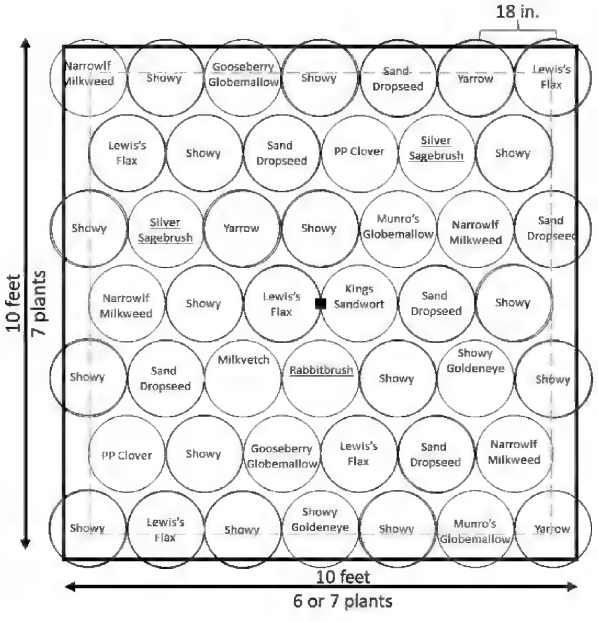
While we did not find any immediate differences in success from our treatments of burlap and seeding Sandberg bluegrass, we did find that burlap helped to keep gophers from completely decimating our plots. A thin layer of bark mulch was intended to be used around each individual plant but because of variations in application from our volunteers, we found that heavy mulching in some plots helped with weed control. These two materials found more extensive use in 2019 because of these surprising benefits.

These results are promising and keep IBO hopeful and optimistic for future planting and restoration efforts. These efforts would be futile if not for generous time and energy put forth by so many volunteers from the community. In 2018, 150 volunteers came to the October planting day and made planting over 2,000 seedlings possible. The results outlined above are from this first effort. Again, in October of 2019, 112 volunteers came to help plant an additional 1,600 seedlings. The special thing this time was that volunteers came to help equipped with full sets of rain gear. We had a rainstorm roll in mid-morning and at one point it was roaring; rain, thunder, and lightning.

IBO has worked closely with Boise State University, the College of Western Idaho, the Golden Eagle Audubon Society, the Idaho Department Fish and Game, the US Fish and Wildlife Service and other partners to make this project a reality. The site is owned partly by Idaho Department of Transportation and partly by Boise State University. IBO has used it since about 2013 for bird banding events, school field trips, and other community outreach.

2019 October planting day with volunteers working hard under the bridge. Photo by Libby Burtner.

For those interested in becoming a volunteer, IBO is rolling out a new opportunity for 2020. The Adopt-a-plot program will allow volunteers to take some ownership of



An example of a plot layout and some species that were planted in October 2018.

A complete experimental plot with burlap treatment and heavy bark mulch. Photo by Kim Bahruth.

Monarch caterpillar, IBO restoration site. Photo by Dusty Perkins.

Hunt's bumble bee, IBO restoration site. Photo by Aaron Connolly.

a plot or two and keep them looking sharp. Weeding, straightening plant protection cages and caring for a few dozen seedlings will be a huge help in IBO's restoration efforts. Other opportunities will include the 2020 fall planting day which is planned for mid-October, and bird banding events at the Boise River research site. Because of COVID-19, volunteer opportunities may change at a moment's notice, but all social distancing guidelines will be adhered to for everyone's continued safety. For more information, you can visit IBO's website at https://www.boisestate.edu/ibo/, or you can contact their Education and Outreach director, Heidi Ware Carlisle at heidiware@boisestate.edu or Adopt-a-plot coordinator, Aaron Connolly at aaronconnolly@u.boisestate.edu. •

About the author:

Aaron Connolly first became involved with IBO as a habitat restoration and monitoring intern in the summer of 2019. Through this experience, he was able to conduct undergraduate research and produce a poster which he presented at the 2020 Idaho Chapter of the Wildlife Society meeting in Moscow, Idaho. As a current student at Boise State University, Aaron plans to continue working toward an education in biology while pursuing a career in wildlife and natural resources management.

Lewis' flax, IBO restoration site. Photo by Aaron Connolly.

Globemallow, IBO restoration site. Photo by Aaron Connolly.

Hoary tansyaster, IBO restoration site. Photo by Aaron Connolly.

Sundancer daisy, IBO restoration site. Photo by Aaron Connolly.

Article Update

Foote Park's Native Plantings Still Lure!

By Alice Crockett, Ann Debolt and Caroline Morris, Pahove Chapter

The *Sage Notes* June 2019 article "Pahove Planting Committee's Work at Foote Park Interpretive Center" informed readers about Pahove members' native planting at the new Boise historic memorial near Lucky Peak Dam. Since then, Pahove's native planting has thrived, reflecting its sound planning, appropriate native plant material selection, thorough site preparation and installation, and ongoing progress checks and "as-needed" irrigation. No on-site water is available, but between the Army Corps of Engineers staff and their "water buffalo" (a 500-gal wheeled container), and Pahove volunteers and their water buckets, the planting still looks good, in spite of the summer heat.

Locally collected and grown species incorporated into the site after the original May 2019 planting include silverleaf phacelia (*Phacelia hastata*) and Douglas false-yarrow (*Chaenactis douglasii*). Natural recruitment of the site by two species of blazingstar—whitestem blazing-star (*Mentzelia albicaulis*) and smoothstem blazing-star (*M. laevicaulis*), has been fun to observe. We believe that the two inches of decomposed granite used to mulch the site not only limited invasive annuals from re-invading, but also facilitated recruitment by these two lovers of well-drained soils.

In areas adjacent to our planting site, invasive weeds, primarily whitetop (*Lepidium draba*), were discouraged by one autumn herbicide application. With the whitetop controlled and others subdued by a combination of hand-weeding and weed-whacking, we have facilitated natural recruitment by basin big sagebrush (*Artemisia tridentata* ssp. *tridentata*), gray rabbitbrush (*Ericameria nauseosa*), hoary aster (*Dieteria canescens*) and annual sunflower (*Helianthus annuus*). Soon we will install signs identifying native plants and requesting visitors to 'Please Stay on the Path.'

This site is now very pleasant for physically-distanced picnics. The Corps liked our work so much that we have been asked to tackle another nearby project soon. To see what the site looked like in 2019 and now, please visit Vicki and Ed Henderson's Gardentronic website: https://www.flickr.com/photos/gardentroic/sets/72157708535378315/

Better yet, go and see it for yourself! •

2020 in the Upper Snake Chapter

By Kristan Kaser, Upper Snake Chapter President

The Upper Snake Chapter had exciting plans for 2020. There were several meetings, a botany foray to join, hosting a special spring speaker, and further developing our local field trips. Members were sorting out carpooling adventures and drumming up ways to improve guided plant walks by adding a berry picking adventure. All of these plans took an abrupt turn when the pandemic began. As lockdowns began state-by-state, plans had to be paused and eventually cancelled. COVID-19 crept into big and small cities, creating chaos. Although the disease has continued to persist, our chapter took our early season excitement and used it to stay active. We asked ourselves a simple question: How do we involve our community in learning about local flora in eastern Idaho and maintain a safe environment?

Dwarf purple monkeyflower (Diplacus nanus). Photo by Kristin Kaser.

The chapter found several solutions to keep our members active in our region. In particular, our chapter used iNaturalist for plant walks and Zoom to hold meetings. iNaturalist is a popular citizen science app typically used to compile ecological observations. We used iNaturalist's project key features of the app to produce a virtual self-guided plant walk and an iNaturalist project was created to organize the different places tours are held. This dual-purpose can be found by searching for the Upper Snake INPS project to find plant observations along plant walk routes. Users can even upload their own observations to participate in citizen science. These observations are automatically placed into the project's defined places such as Craters of the Moon National Monument. This app provides this information to the public for free, is user friendly, and helps share information about southeast Idaho plants with members and non-members alike. As members embarked on the plant treasure hunts, armed with smart phones, they followed pre-recorded locations of plants along the paths trying to find all the noted observations. Members were entertained by the challenge of trying to find all the original observations. At Craters of the Moon National Monument, an atypical white variant of the dwarf purple monkeyflower (*Diplacus nanus*) and the iconic bitterroot (*Lewisia rediviva*) were recorded and members were encouraged to find it. Near Victor, Idaho, up Moose Creek, the delicious thinleaf huckleberries (*Vaccinium membranaceum*) were ripe for the picking. Using iNaturalist as a surrogate for walks was a great help this summer but getting out to botanize the countryside wasn't the only important goal the chapter wanted to complete. Our goal was to make everyone more knowledgeable about what they were finding.

Thinleaf huckleberry (Vaccinium membranaceum). Photo by Catherine Black.

Although iNaturalist helped people find and identify plants, we wanted them to have some self-identification tools of their own. Using Zoom we held meetings discussing plant family characteristics—characteristics that can be used to identify common plant families. Terminology can be tough to master alone, so we put together a small botany lecture covering the basics for the sunflower family (Asteraceae) and the rose family (Rosaceae). Members enjoyed learning that the common sunflower (*Helianthus annus*) and big sagebrush (*Artemisia tridentata*) both belong in the sunflower family because they have composite flowerheads. Others enjoyed refreshing their jargon and some were surprised to learn just how many plants belonged in the rose family. These new tools helped bridge the botanical knowledge gap allowing members to engage their environment with more purpose while getting everyone outside to enjoy the sunshine.

Bitterroot (Lewisia rediviva). Photo by Kristin Kaser.

This summer was peculiar in many ways, but the plants didn't notice. They kept being plants and we just kept asking them who they were. Some are still not telling, while others flaunt their presence. Although learning new tools to ask these questions can be cumbersome, I have enjoyed becoming more acclimated to the virtual presence of our chapter. I want to thank our members who greatly contributed to this new system. We could not have had such a successful season without our team. THANK YOU so much for providing hope and encouragement. We plan to hold our final fall Zoom meeting in October before we have our winter break. The Zoom link is provided to anyone who reaches out to our chapter at upper-snake-inps@googlegroups.com.

For those of you that would like to join us on iNaturalist, please enjoy the following video tutorials and 'guided walks': iNaturalist project name: Upper Snake INPS; User names: kristinkaser, blaccath; Video tutorials: https://www.inaturalist.org/pages/video+tutorials •

Chapter News

CALYPSO CHAPTER

When: Meetings are the first Wednesday of March, April, May and October at 7:00 pm. Field trips take place during the spring, summer, and early fall months.
Where: Meetings are now being held in the Wildlife Building, North Idaho Fairgrounds, Coeur d'Alene.
Contact: Derek Antonelli, ds.ca.antonelli@gmail.com

LOASA CHAPTER

When: Meetings are held the third Thursday of each month at 7:00 pm.
Where: Taylor Building, Room 247, College of Southern Idaho, Twin Falls.
Contact: Bill Bridges, bridgesbill34@yahoo.com

PAHOVE CHAPTER

When: Meetings are held on the second Tuesday of each month from September–April at 7 pm. Times, dates, and topics are tentative. Current information will be sent to members via email. Events are also posted on the Pahove Chapter page of the INPS website: https://idahonativeplants.org/pahove/
Where: Meetings are usually held at the MK Nature Center Auditorium, 600 S. Walnut St, Boise (For now, they will be Zoom presentations instead).
Contact: For more information about Chapter activities visit our website: www.idahonativeplants.org or email Karie Pappani at pahove.chapter.president@gmail.com
Upcoming Events
Due to COVID-19, monthly meetings/presentations will be held online via Zoom for the foreseeable future. Our annual pizza party, which generally takes place in September at Idaho Botanical Garden, is postponed until further notice.
Virtual Meetings: The Pahove board is currently putting together an exciting line-up of speakers for the 2020-21 season. Details will be posted online and announced via email once they are confirmed. Invitations to monthly Zoom presentations will be sent via email. Stay tuned and stay healthy.

SAWABI CHAPTER

When: Meetings are held on the third Monday night of October, November, January, February, March and May. Programs begin at 7:00 pm and refreshments are available afterwards. Each meeting begins with a short presentation on the plant family of the month.
Where: The Middle Fork Room of the Pond Student Union Building on the lower Idaho State Univ. campus.
Contact: Geoff Hogander, ghogande@yahoo.com.
Upcoming Events
The Sawabi Chapter has discontinued all of its group activities for the time being due to COVID 19. Our usual summer plant walks were cancelled, and some members have been getting their "plant fix" through the Idaho Plant Society Community Group and Idaho Plants group on Facebook.
Virtual Meetings: At our board meeting in August we learned that our usual meeting room at Idaho State University will not be available this fall so we decided to try to conduct our fall/winter meetings using the virtual platform "Zoom".
Annual Meeting: We have reserved the same location at the Mink Creek group site for the 2021 INPS annual meeting for June 18–21. We're still looking forward to hosting this gathering.

UPPER SNAKE CHAPTER

Contact: Kristen Kaser, kaser.kristen@gmail.com.

WHITE PINE CHAPTER

When: Meetings are held once a month at 7:00 pm except during the summer. Field trips can occur most any month. Please check the chapter website at www.whitepineinps.org for events which may be scheduled or finalized after *Sage Notes* is printed; or email the chapter officers at whitepine.chapter@gmail.com.
Where: Great Room of the 1912 Building, 412 East Third St. in Moscow (between Adams and Van Buren).
Contact: INPS, White Pine Chapter, PO Box 8481, Moscow, ID 83843 or whitepine.chapter@gmail.com.

WOOD RIVER CHAPTER

When: Meetings are held on weekday evenings and wildflower walks generally on Saturdays. Times are announced in local news outlets and also in the chapter newsletter. Events are also posted on the Wood River Chapter page of the INPS website.
Where: Each meeting's location is noted in the announcement.
Contact: Subscribe to the newsletter by emailing Lisa Horton at 1gypsy2016@gmail.com. Address questions about programs to Kristin Fletcher at naturewalker7@gmail.com. •

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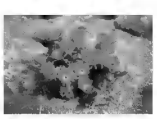

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Vol. 42 No. 3 December 2020

Sage Notes

Newsletter of the Idaho Native Plant Society • Promoting Interest in Idaho's Native Flora

The 13th Annual Idaho Botanical Foray

By Trista Crook, Collection Manager, Ray J. Davis Herbarium, Idaho Museum of Natural History

Twenty-four botanists and their friends and families gathered at Pine Bar Campground in the Caribou National Forest, about 9.5 road miles E of Wayan and 46 road miles NE of Soda Springs in SE Idaho, for the 13th Annual Idaho Botanical Foray, held from June 26-June 28, 2020. The Ray J. Davis Herbarium of the Idaho Museum of Natural History at Idaho State University hosted the event, with Janet and Ed Bala heading out on Wednesday to secure campsites at the small, but beautiful, campground. Most people arrived by Thursday evening.

The foray began in 2008 after Dr. Jim Smith (Boise State University) attended the Washington Botanical Foray and decided to start one in Idaho. The hosting institution rotates among the four largest herbaria in the state—the Stillinger Herbarium (University of Idaho), the Snake River Plains Herbarium (Boise State University), the Harold M. Tucker Herbarium (College of Idaho), and the Ray J. Davis Herbarium (Idaho State University). The foray brings amateur and professional botanists together to collect specimens for current research projects, as well as species that may be underrepresented in our herbaria or those which were collected 50 or more years ago. During this year's foray, we collected tissue samples and specimens of plants in the family Apiaceae (the carrot or parsley family) to support the phylogenetic research of Jim Smith, Don Mansfield (College of Idaho), and Mary Ann Feist (University of Wisconsin). The result of our endeavors was an abundance of *Lomatium bicolor* (Wasatch biscuitroot or desert-parsley), but also the less common *Zizia aptera* var. *occidentalis* (meadow zizia).

The group collected plants from the Grays and Caribou Mountains, the Diamond Flat area, the Blackfoot Reservoir area, and the Grays Lake National Wildlife Refuge. This region is part of the Middle Rockies ecoregion, dominated by cold valleys and partly forested mountains. The geology of the area is largely the result of volcanic and tectonic activity that continues to this day. As the crust of the earth shortened and the basin and range expanded, numerous faults developed. Frequent earthquakes and geothermal activity suggest active faults and moving magma in subsurface regions of the mountain range. The area is home to the Phosphoria Formation—a geologic feature containing the largest deposits of phosphate rock in the world.

Foray participants included Paul Allen, Derek Antonelli, Janet and Ed Bala, Daniel Botello, Beth Corbin, Trista Crook, Mark Darrach, Nikki and Roger Frey, Cara Hastings, Ben Legler, Rose Lehman, Steve and Monaquita Love, Don Mansfield, Wren Mansfield, Steve Martin, Phebian Odufuwa, Pam Reschke, Samantha Seabrook-Sturgis, Jim Smith, Rosemary Smith, Christy Thompson, Mason Tuttle, and Rick Williams. The following dogs were present: Nellie, Pearl, Prospero, Sofie, and Tsuga.

On Friday morning we pored over the maps and split into five groups. Janet and Ed Bala, Trista Crook, and Nikki Frey drove to the BLM's

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Letter from the President

I have been blessed through the period of COVID-19. My job was never at risk and I was able to generate income for my family. I have been able to stay busy and accomplish most tasks associated with my profession. Although both my wife and I contracted the virus, and suffered from symptoms for many weeks, ultimately, we recovered without suffering serious damage. I have lost to this virus very few people that I personally know and with whom I was close, although my son-in-law lost his father, and we have had to provide support to him as he deals with the fallout. In fact, there are times when I think the virus is having minimal impact on my life. But lately I am beginning to realize that is not at all true.

By nature, I am a quiet, reserved, private person. In fact, I have had to work hard throughout my life to create positive social interactions that help prevent me from becoming a total recluse. The pandemic, with its inherent demand for social distancing, is creating a very comfortable environment for the reclusive side of me. Conditions imposed by the virus are beginning to make myself socially irrelevant. Given my personal tendencies, I fear the impact of this situation. It is essential that I get out and rub shoulders with the people I know and love. I truly appreciate the members and chapters of INPS who have developed programs, even though delivered at a distance, that allow some interaction with like-minded people.

This has created a warm, bright spot in an otherwise cold landscape. I am beginning to generate hope that we can resume our societal interactions within a few months. It looks as though a vaccine for COVID-19 may be available to the general public before our scheduled summer annual meeting. Now that would be a huge breath of fresh air, and will allow each of us to abandon our imposed reclusive lifestyles. We constantly hear the term "new normal" as a description of our pandemic existence. I cringe a little when I hear that term. Nothing about the way we are currently living is normal, whether new or not. I suspect many of you feel the same. In me, the social realities we now live with, create a hunger to interact with people on a very basic level. I hope that by the date of our annual meeting this summer, we can participate in a safe, interesting, inspiring event—and give and receive a few emotional hugs. I am planning on being ready for the meeting and will seek vaccination as it becomes available. I am guessing I am not alone in that mindset. Maybe, just maybe, by next summer we can step out of our lonely homes and greet a world resplendent with wonderful people and beautiful native plants.

Stephen Love,
INPS President

2021 INPS Annual Meeting

The Sawabi Chapter in Pocatello, Idaho, is hosting the 2021 INPS Annual Meeting from **Friday, June 18 to Monday, June 21**. Activities will be based at the Mink Creek Group Site approximately 13 miles south from the center of Pocatello: https://www.recreation.gov/camping/campgrounds/233966. There will be room for about 12 RVs at the site and unlimited tent camping. The Scout Mountain Forest Service Campground is 7 miles (16 minutes) away for those seeking a more traditional camping experience. A limited number of sites there are reservable through: recreation.gov. https://www.recreation.gov/camping/campgrounds/233968.

Registration deadline is June 7. All registrants will be emailed with details about the Saturday and Sunday trips with the difficulty levels and trip leaders along with other information. The registration form can be found on the INPS website: https://idahonativeplants.org/statewide-annual-meeting/

Schedule of Events

(All events are contingent on the progress of COVID-19 in Idaho. A decision will be made on May 20 to cancel the event again if circumstances require it. Registration checks will be returned if the meeting is cancelled.)

Thursday afternoon

- Early Check-in/Registration/Information Packets, 12:00–6:00 pm, at the Mink Creek Group Site shelter.
- Plants in Camp Treasure Hunt, 4:00 pm.

Friday

- Check-in/Registration/Information Packets. 8:00 am–6:00 pm, at the Mink Creek Group Site shelter.
- Tour of Ray J. Davis Herbarium/Idaho State Museum of Natural History, 10:00 am–12:00 pm.
- Tour of Ray J. Davis Herbarium/Idaho State Museum of Natural History, 2:00 pm–4:00 pm.
- INPS Board Conference Call at the Herbarium, 4:30 pm.
- Potluck Dinner at Mink Creek Group Site, 6:00 pm.
- Botany Bingo, 7:00 pm.

Saturday

- Late Registration, 8:00 am.
- Field Trip to Allen Cabin, 9:00 am. A moderately inclined dirt path that meanders through mixed conifer/mountain mahogany/aspen forest and sage to a cabin for snacks, views and your own lunch. (4-5 hours, carpool)
- Plant Walk at Hell's Half Acre Rest Stop, 9:00 am. Paved path through a lava flow. (4 hours, carpool)
- Plant Walk at Cherry Springs, 10:00 am and 2:00 pm. Paved path in a riparian area. (2 hours, carpool)
- Catered Dinner, 6:00 pm.
- Annual Meeting/ERIG Silent Auction/Elections, 7:00 pm.
- Guest Speaker, Mike Merigliano on Tall Forb Plant Communities, 8:00 pm.

Sunday

- Plant Walk at Pebble Creek Ski Area trail, 9:00 am. Walk up the switchbacking cat track through the flowered slopes of our local ski area. Moderately challenging. (4 hours, carpool)
- Tour of U of I Experimental Station, Native Plant Garden, Aberdeen, 9:00 am. (3 hours, carpool)
- Plant Walk at Scout Mountain Nature Trail, 10:00 am. Hilly dirt trail through Douglas-fir and sagebrush. (2 hours, carpool)
- Tour of U of I Experiment Station, Agricultural Research, Aberdeen, 1:00 pm. (3 hours, carpool)
- Plant Walk at Scout Mountain Bog, 2:00 pm. Paved road through Douglas-fir and riparian. (2 hours, carpool)
- Dinner on your own, 6:00 pm.

Monday

- Car Tour of Crystal Summit, 10:00 am. Drive on gravel road through sagebrush, aspen and Douglas-fir. Short walks. (2 hours, carpool)

***Botanical Foray**...Continued from Page 1*

Travertine Park Area of Critical Environmental Concern (ACEC), at the request of the BLM Idaho State Botanist, Anne Halford. A rare lichen was reported from the ACEC, but no one found it during the exploration of the area. The ACEC includes a stretch of the Blackfoot River, so we collected a few riparian species, including *Cornus sericea* (red-osier dogwood), *Ribes aureum* (golden currant), *Drymocallis* sp., *Hymenoxys hoopesii* (orange sneezeweed), and several grasses. Trista found a few lichens, including *Cladonia*, *Peltigera* (pelt or dog lichen), and *Xanthoparmelia* (rock shield lichen).

Lomatium bicolor. Photo by Rosemary Smith.

Ben Legler, Paul Allen, and Derek Antonelli headed to Grays Lake National Wildlife Refuge, where they collected from a pond surrounded by a marsh dominated by *Sparganium eurycarpum* (broadfruit bur-reed), *Typha latifolia* (broadleaf cattail), and *Juncus balticus* (Baltic rush). Floating in the water they also found abundant *Myriophyllum* (water milfoil), *Nuphar polysepala* (Rocky Mountain pond-lily), and *Utricularia vulgaris* (common bladderwort). They also collected from a wet meadow containing *Juncus balticus*, *Poa pratensis* (Kentucky bluegrass), *Argentina anserina* (silverweed cinquefoil), and *Valeriana edulis* (edible valerian). *Wyethia amplexicaulis* (mule-ears) and *Zigadenus venenosus* (meadow deathcamas) were collected from other moist meadows.

Lau Creek Trail, Pine Bar Campground. Photo by Trista Crook.

Jim Smith, Cara Hastings, Phebian Odufuwa, and Daniel Botello went to the Olsen Creek area off of Forest Service Road 244, where they found *Lomatium simplex* (Great Basin desertparsley) in a lodgepole pine forest with open meadows, *Lomatium multifidum* (carrotleaf biscuitroot) in open areas with steep rocky slopes, and *Lomatium grayi* (Gray's biscuitroot) in rocky, clay soil with aspen.

Don Mansfield led a group up Forest Road 095 (Olsen Creek Rd.) and Forest Road 107 with a goal to survey Stump Mountain. Steve and Monaquita Love, Mark Darrach, Beth Corbin, and Wren Mansfield accompanied him. In the end they decided to collect along a ridge south of Flat Valley Creek and then near Hwy. 34. Steve Love and Beth Corbin were puzzled by a penstemon that they later keyed out to *Penstemon cyananthus* var. *subglaber* (Wasatch beardtongue), a variety new to Beth. They looked for plants in lodgepole pine-subalpine fir-aspen forests and clearings, as well as meadows and rock outcrops. There were also wetlands, wet draws, and seeps to explore. *Androsace* (rock jasmine), *Floerkea proserpinacoides* (false-mermaidweed), *Draba* (whitlow-grass), *Polygonum polygaloides* ssp. *Kelloggii* (Kellogg's knotweed), *Nemophila* (baby blue eyes), *Neottia cordata* (formerly *Listera* (heartleaf twayblade)), *Pedicularis groenlandica* (elephanthead lousewort), *Piptatherum exiguum* (little ricegrass), and *Hymenoxys* (rubberweed) were among the more than 100 species they found.

Don Mansfield and Mark Darrach collecting along road. Photo by Beth Corbin.

Rick Williams, Rosemary Smith, and Samantha Seabrook-Sturgis collected along the Lau Creek Trail, which heads south from Pine Bar Campground. They collected in dry and wet meadows—sometimes with aspen—and in wetlands. A few of the species they found were *Mitella stauropetala* (smallflower miterwort), *Pedicularis bracteosa* (bracted lousewort), *Melica spectabilis* (purple oniongrass), *Dodecatheon pulchellum* (darkthroat shooting star), *Perideridia* (yampah), *Ipomopsis aggregata* (scarlet gilia), *Astragalus cibarius* (browse milkvetch), *Penstemon rydbergii* (meadow penstemon), *Erysimum capitatum* (sanddune wallflower), and *Ligusticum filicinum* (fernleaf licorice-root). They also found *Viola canadensis* (Canadian white violet), a species previously collected in a different part of Caribou County in 1996 and with only 22 collections from SE Idaho.

The following day, Jim Smith, Don Mansfield, Wren Mansfield, and Trista Crook began hiking up Caribou Mountain from Caribou City—a ghost mining town. After following various two-tracks, they eventually found the one they were looking for, where they collected several common species such as an

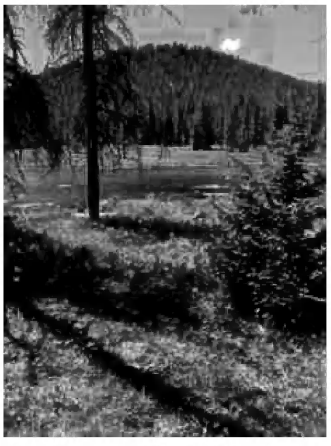
Pedicularis bracteosa. Photo by Pam Reschke.

Allium spp. (onion) and *Balsamorhiza macrophylla* (cutleaf balsamroot). The trail meandered through Douglas-fir forests and open sagebrush meadows. In the quest for Apiaceae, Jim and Trista happened upon a patch of *Cymopterus* aff. *purpureus* (purple springparsley) that was not quite in flower, which may be a new state record. As for lichens, abundant *Peltigera* spp. grew along hillsides and in flat areas.

Penstemon cyananthus subsp. subglaber. Photo by Beth Corbin.

Derek Antonelli led a group through a lodgepole pine forest containing large beaver dams and meadows in the Diamond Flat area with *Poa bulbosa* (bulbous bluegrass), *Lupinus* sp. (lupine), asters, and *Trifolium* (clover). They found a small group of *Botrychium* (moonworts or grape ferns), which may be a rare species. They also found more potential *Thelypodium paniculatum* (northwestern thelypody) in a meadow.

Janet and Ed Bala and Pam Reschke also collected in the Diamond Flat area where they found *Polygonum bistortoides* (meadow bistort), *Camissonia* (evening primrose), *Cirsium scariosum* (elk thistle), and *Penstemon procerus* (littleflower penstemon) at the edge of a flat meadow with red soil and travertine rocks.



Near Diamond Flat, FSR 365. Photo by Roger Frey.

Ben Legler, Beth Corbin, Samantha Seabrook-Sturgis, Cara Hastings, and Daniel Botello travelled to Old Baldy Peak where they collected in a variety of habitats ranging from a rocky, dry meadow on a gentle slope to a steep south-facing slope and Douglas-fir forests. They also collected in some areas with mining disturbance and old roads. *Leucopoa kingii* (spike fescue), *Stenotus lanuginosus* (woolly mock goldenweed), *Chanaectis douglasii* (Douglas' dustymaiden), and *Artemisia tridentata* subsp. *vaseyana* (mountain big sagebrush) were among the most common species. Less common species included *Castilleja* cf. *applegatei* (wavyleaf Indian paintbrush), *Eriogonum brevicaule* (shortstem buckwheat), and *Erigeron compositus* (cutleaf daisy). They also collected the mistletoe, *Arceuthobium americanum*, from a lodgepole pine.

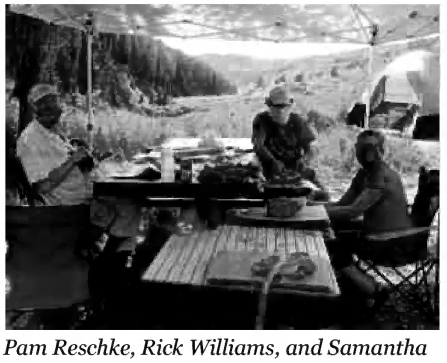
Rain was in the forecast for Sunday. Upon waking, we packed up and started heading for our respective homes. However, before leaving, Trista Crook explored a narrow strip of phosphoria near Trail Canyon Road, finding a *Ranunculus* sp. (buttercup) and some interesting grasses and sedges in an aspen-Douglas-fir forest and sagebrush shrubland. She also collected a few macrofungi, including what is likely a *Coprinus* (ink cap), a polypore (shelf-fungus), and LBM (Little Brown Mushroom).

At Formation Cave ACEC, *Erythranthe guttata* (common yellow monkeyflower), *Urtica dioica* (stinging nettle), *Ribes aureum* (golden currant), and *Deschampsia cespitosa* (tufted hair grass) grew in a marsh. On BLM land adjacent to Trail Canyon Road, boulders housed a variety of lichens, including one thallus of *Circinaria hispida* (syn. *Aspicilia hispida*, vagabond lichen, not collected), a species that is restricted to calcareous soils, and some umbilicate species. Some of the vascular plants growing in the area were *Petrophytum caespitosum* (rockmat), *Packera multilobata* (lobeleaf groundsel), and *Galium* (bedstraw).

Rick Williams and Samantha Seabrook-Sturgis collecting along Lau Creek Trail. Photo by Rosemary Smith.

We collected 624 vascular plant specimens, 28 lichens, one bryophyte, and four macrofungi, most of which are stored at the Ray J. Davis Herbarium awaiting identification. Jim Smith's specimens are stored at the Snake River Plains Herbarium. Due to COVID-19 pandemic restrictions, there won't be any workshops held this year for identifying the plants.

Thanks to Rose Lehman (USFS Botanist) for her support and helping us secure the campground, to Kara Green (USFS Soil Scientist) for suggesting and providing maps and details on areas with interesting soils, to Diane Wheeler (USFS Geologist) for suggesting areas of the Phosphoria Formation to explore, and to all of the participants who helped gather specimens.



Pam Reschke, Rick Williams, and Samantha Seabrook-Sturgis pressing plants back at camp. Photo by Steve Martin.

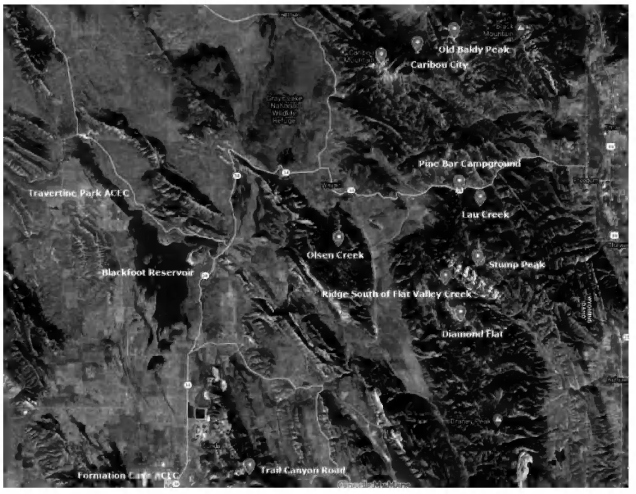
Next year's foray will be hosted by Boise State University. Keep an eye

...Continued on Page 6

***Botanical Foray**...Continued from Page 5*

out in future *Sage Notes* for further information. Everyone is welcome to come along. •

Group Photo by Steve Martin.



Map of collection Area.

ERIG Announcement

INPS ERIG Solicitation for Proposals 2021

Every year the Idaho Native Plant Society (INPS) awards grants through the Education Research Inventory Grant (ERIG) program. Since 2005, INPS has awarded over $25,000 in grants of up to $1000. Continuing in that tradition in 2021, the INPS will partner with projects that contribute to the appreciation, conservation, or knowledge of Idaho's native flora and vegetation. The purpose of the ERIG program is to stimulate and lend support to educational, research, and conservation activities that promote an appreciation for native plants and plant communities in Idaho. The Idaho Native Plant Society encourages you to submit a proposal for projects that may qualify. The deadline for submitting proposals is January 15, 2021.

Grant guidelines: The ERIG program is intended to support direct project costs. Grant proposals should not include expenses for salary and personal benefits, the purchase of personal equipment, equipment not dedicated to the project, or other expenses not essential to the project. Here are some examples of costs the grant may cover:

- Meals, lodging, and direct costs of travel.
- Indirect costs will not be funded.
- Supply and service expenses used for the sole purpose of the project (e.g., native plant material, interpretive signs, lab materials).
- Printing costs for public outreach material or research publications.

Application procedure and requirements: Proposals must contain the following information. Please be succinct:

1. *Project Title.*
2. *Contact Information:* Name, address, phone number, organization/affiliation, and email address.
3. *Project Description:*
   a. Outline the project objectives, methods, and final product.
   b. Explain how the project will benefit the appreciation, conservation, or knowledge of Idaho's native flora or vegetation.
   c. Describe how the public will have access to the project.
   d. Describe how project success will be evaluated.
4. *Itemized budget:* Outline an overall project budget, including the amount you are requesting (up to $1,000). Include other funding sources.
5. *Timeline:* Please provide a timeline for completion of all major milestones associated with the project, including presentation of the results.

Project proposals must pertain to native plants of Idaho. Please limit grant requests to a maximum of $1,000, and be aware that less may be awarded due to INPS budget constraints and the number of applications submitted. Recipients of these awards have a timeline of two years from the date of the written award to complete their projects. Successful applicants will be required to submit a final report to the INPS documenting project accomplishments and a summary of the project to be published in the INPS newsletter, *Sage Notes*. We encourage applicants to become an INPS member if they are not already, however membership is not a prerequisite to apply for or to receive an ERIG grant.

Please submit proposals by email to Bob McCoy at sawabi.inps@gmail.com or by post to: ATTN: ERIG Committee Chair, Idaho Native Plant Society, P.O. Box 9451, Boise, ID 83707. •

CALYPSO CHAPTER

When: Chapter meetings will remain suspended until after full COVID-19 vaccine rollout. Meetings are normally held the first Wednesday of March, April, May, and October at 7:00 pm.
Where: Meeting are held in the Wildlife Building, North Idaho Fairgrounds, Coeur d'Alene.
C***ontact:*** Derek Antonelli, ds.ca.antonelli@gmail.com
Upcoming Events
Field trips take place during the spring, summer, and early fall. Assuming reasonable COVID-19 levels, small-group outdoor plant walks will begin in April. We are considering a spring field trip to The Nature Conservancy's Cougar Bay Preserve and a spring plant survey at the Antoine Peak Park. We are soliciting additional ideas for spring and summer field trips at this time. Chapter emails will provide details. Contact Derek to be added to the email list.

LOASA CHAPTER

When: Meetings are held the third Thursday of each month at 7:00 pm.
Where: Taylor Building, Room 247, College of Southern Idaho, Twin Falls.
Contact: Bill Bridges, bridgesbill34@yahoo.com

PAHOVE CHAPTER

When: Meetings are held on the second Tuesday of each month from September–April at 7 pm. Times, dates, and topics are tentative. Current information will be sent to members via email. Events are also posted on the Pahove Chapter page of the INPS website: https://idahonativeplants.org/pahove/
Where: Meetings are usually held at the MK Nature Center Auditorium, 600 S. Walnut St, Boise (For now, they will be Zoom presentations instead.)
Contact: For more information about Pahove Chapter activities visit the website: www.idahonativeplants.org or email Karie Pappani at pahove.chapter.president@gmail.com
Upcoming events
The Pahove board misses seeing everyone in person and appreciates your continued involvement in the chapter despite the cancellation of the bulk or our events and the substandard experience of having to meet over Zoom. We hope you have a great holiday season and wish you all the best in 2021. Happy New Year!
January 12: John Keeley—Nexus Between Wildfires, Climate Change, and Population Growth
February 9: Carol Wilson—Mistletoe
March 9: TBD
April 13: Jennifer Sowerwine—Biocultural Systems, Food Security, and Eco-cultural Restoration in the Klamath River Basin

SAWABI CHAPTER

When: Meetings are held on the first Monday night of October, November, January, February, March and May. Programs begin at 7:00 pm and refreshments are available afterwards. Each meeting begins with a short presentation on the plant family of the month.
Where: The Middle Fork Room of the Pond Student Union Building on the lower Idaho State Univ. campus.
Contact: Geoff Hogander, ghogande@yahoo.com.
Upcoming Events
The Sawabi Chapter has discontinued all of its group activities for the time being due to COVID-19. Our usual summer plant walks were cancelled, and some members have been getting their "plant fix" through the Idaho Plant Society Community Group and Idaho Plants Group on Facebook.
Virtual Meetings: At our board meeting in August, we learned that our usual meeting room at Idaho State University will not be available this fall so we decided to try to conduct our fall/winter meetings using the virtual platform "Zoom".
Annual Meeting: We have reserved the same location at the Mink Creek group site for the 2021 INPS annual meeting for June 18–21. We're looking forward to hosting this gathering.

UPPER SNAKE CHAPTER

Contact: Kristin Kaser, kaser.kristin@gmail.com

WHITE PINE CHAPTER

When: Meetings are held once a month at 7:00 pm except during the summer. Field trips can occur most any month. Please check the chapter website at www.whitepineinps.org for events which may be scheduled or finalized after *Sage Notes* is printed; or email the chapter officers at whitepine.chapter@gmail.com.
Where: Great Room of the 1912 Building, 412 East Third St. in Moscow (between Adams and Van Buren).
Contact: INPS, White Pine Chapter, PO Box 8481, Moscow, ID 83843 or whitepine.chapter@gmail.com.

WOOD RIVER CHAPTER

When: Meetings are held on weekday evenings and wildflower walks generally on Saturdays. Times are announced in local news outlets and also in the chapter newsletter. Events are also posted on the Wood River Chapter page of the INPS website.
Where: Each meeting's location is noted in the announcement.
Contact: Subscribe to the newsletter by emailing Lisa Horton at 1gypsy2016@gmail.com. Address questions about programs to Kristin Fletcher at naturewalker7@gmail.com. •

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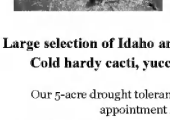

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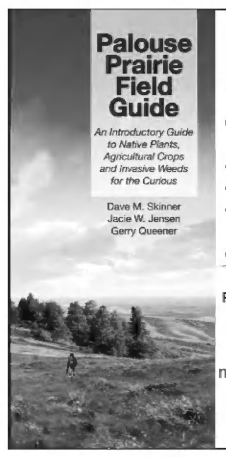

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